

Amendments to the Specification

Please amend the specification as follows:

Please replace the paragraph on page 13, lines 10-25, with the following amended paragraph:

The aforementioned Patent Document 4 discloses a leukocyte removal filter formed by coating the surface of a non-woven fabric used as a filter element with a coating agent containing a nonionic hydrophilic group and a nitrogen-containing basic functional group (for example, a copolymer consisting of 2-hydroxyethyl methacrylate and ~~2-(N,N-diethylamino)ethyl methacrylate~~ 2-(diethylamino)ethylmethacrylate, and then laminating a plurality of the thus coated non-woven fabrics. In this case, it is considered that the removal (capturing) of leukocytes is carried out by adsorption mechanism, and that the nitrogen-containing basic functional group has the effect of selectively adsorbing leukocytes and the nonionic hydrophilic group has the effect of suppressing non-selective adsorption of various blood cell components.

Please replace the paragraph on page 65, lines 11-27, with the following amended paragraph:

In addition, when a nitrogen-containing basic functional group is introduced into the supporting porous membrane or composite porous membrane by the coating method, the type of a monomer containing a nitrogen-containing basic functional group used for the synthesis of the coating polymer is not particularly limited. A monomer containing an aliphatic tertiary amino group is particularly preferable. Examples of such a compound may include ~~2-(N,N-~~

~~dimethylamino)ethyl (meth)acrylate~~ 2-(dimethylamino)ethyl (meth)acrylate, 2-(diethylamino)ethyl (meth)acrylate, 2-(ethylmethylanino)ethyl (meth)acrylate, 2-(diethanolamino)ethylethyl (meth)acrylate, 2-(dimethylamino)propylethyl (meth)acrylate, 3-(dimethylamino)propyl (meth)acrylate, 3-(diethylamino)propyl (meth)acrylate, 2-(diethanolamino)propyl (meth)acrylate, and 3-(diethanolamino)propyl (meth)acrylate.

Please replace the paragraph on page 101, lines 21-22, with the following amended paragraph:

An integral-type filter structure as shown in Fig. 3 5 is evaluated.

Please replace the paragraphs on page 103, line 15, to page 104, line 17, with the following amended paragraph:

1. Production of coated non-woven fabric piece

1-1. Synthesis of coating polymer

<Synthesis of 2-hydroxyethyl methacrylate (HEMA)/~~2-(N,N-dimethylamino)ethyl-methacrylate~~ 2-(dimethylamino)ethyl methacrylate (DMAMA) random copolymer>

126 g (0.970 mol) of 2-hydroxyethyl methacrylate (HEMA, manufactured by Mitsubishi Rayon Co., Ltd.), 4.72 g (0.030 mol) of ~~2-(N,N-dimethylamino)ethyl-methacrylate~~ 2-(dimethylamino)ethyl methacrylate (DMAMA, manufactured by Wako Pure Chemical Industries, Co., Ltd.), and 460 g of ethanol were placed in a separable flask (capacity: 1 L). Thereafter, oxygen was removed by nitrogen bubbling, and the temperature of the reaction system was then increased to 60°C, while maintaining the inside of the container in a nitrogen atmosphere. Thereafter, a deoxidized ethanol solution (ethanol: 40.0 g), in which 0.822 g

(5.01 mol) of azobisisobutyronitrile (AIBN, manufactured by Wako Pure Chemical Industries, Co., Ltd.) had been dissolved, was added dropwise to the above reaction system over approximately 1 hour. The obtained mixture was continuously stirred at 60°C, and 225 minutes after initiation of the addition of AIBN, p-methoxyphenol (manufactured by Wako Pure Chemical Industries, Co., Ltd.) was added to the reaction solution, so as to terminate the polymerization reaction. Thereafter, n-hexane was added bit by bit to the obtained reaction solution, so as to precipitate a polymer. The polymer was taken out by decantation. Thereafter, dissolution in ethanol and reprecipitation operation using n-hexane were repeated several times, so as to purify the polymer.